2006-08 ACCESSORIES & EQUIPMENT

Moonroof - Civic

COMPONENT LOCATION INDEX

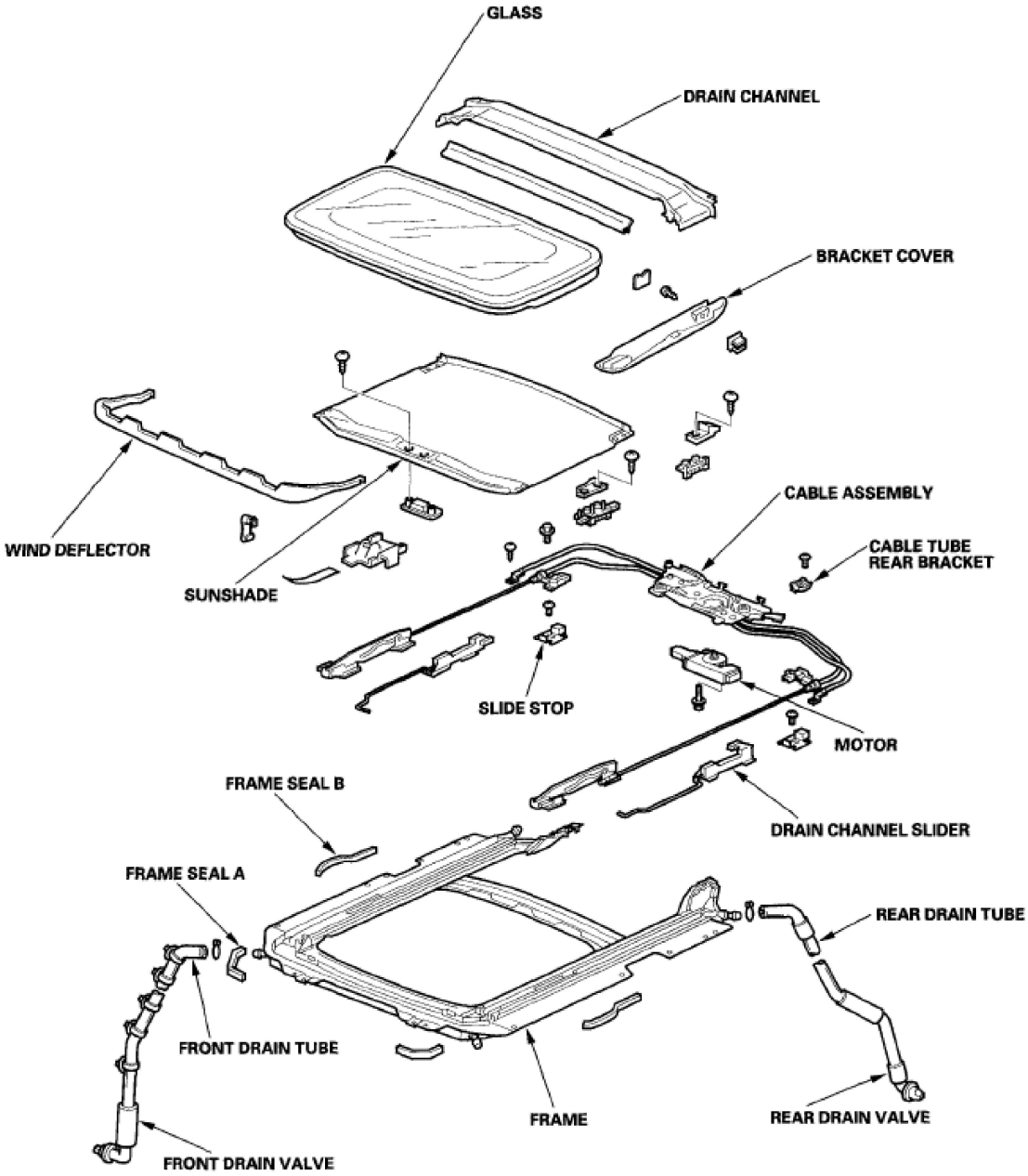

Fig. 1: Exploded View Of Moonroof

SYMPTOM TROUBLESHOOTING INDEX

SYMPTOM TROUBLESHOOTING INDEX

Symptom	Diagnostic procedure
Water leaks from moonroof	1. Check for a clogged drain tube. 2. Check for a gap between the glass weatherstrip and the roof panel. 3. Check for a defective or an improperly installed glass weatherstrip or drain channel. 4. Check for a gap between the drain seal and the roof panel. 5. Adjust the moonroof height.
Wind noise from moonroof	1. Check for excessive clearance between the glass weatherstrip and the roof panel. 2. Adjust the moonroof height.
Motor noise from moonroof	1. Check for a loose motor. 2. Check for a worn gear or bearing. 3. Check for a deformed cable assembly.
Moonroof glass does not move, but motor turns	1. Check for a defective gear or inner cable. 2. Check for foreign matter stuck between the guide rail and the slider. 3. Check for a loose inner cable. 4. Make sure the cable assembly is attached properly.
Moonroof glass does not move and motor does not turn (glass can be moved with moonroof wrench)	1. Check for a blown fuse. 2. Check for a faulty moonroof switch. 3. Check for a run down battery. 4. Check for a defective motor control unit.
Moonroof glass does not stop at proper flush closed position	1. Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).

	2. Check glass height adjustment.
Moonroof glass moves in a jerking motion (moves 40 mm (1.57 in.), stops for 0.4 seconds, and repeats)	Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).
During auto close operation, moonroof glass reverses when no object is trapped	Check for dirt and debris in the track. Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).
Moonroof glass moves, but there is no AUTO function	Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).

GLASS POSITION ADJUSTMENT

The roof panel (A) should be even with the glass weatherstrip (B), to within 0+1/-1 mm (0+0.04/-0.04 in.) all the way around, and should be to length of between the roof panel and glass, to within 13.5+1/-1 mm (0.55+0.04/-0.04 in). If not, make the following adjustment:

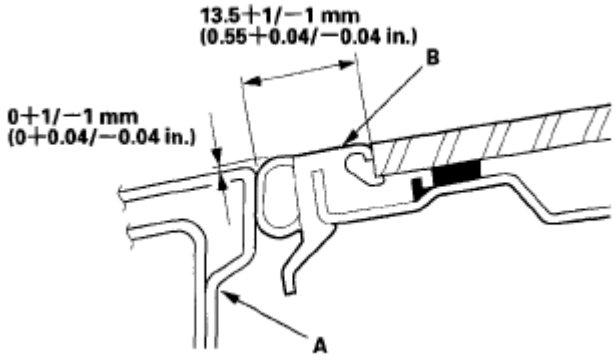

Fig. 2: Adjusting Glass Position (with Specifications)

1. Remove the bracket cover.
2. Adjust the glass (A).
    -1 Using a T25 TORX bit, slightly loosen the bolts.
    -2 Move the glass up or down and forward or rearward.
    -3 Tighten all bolts securely.

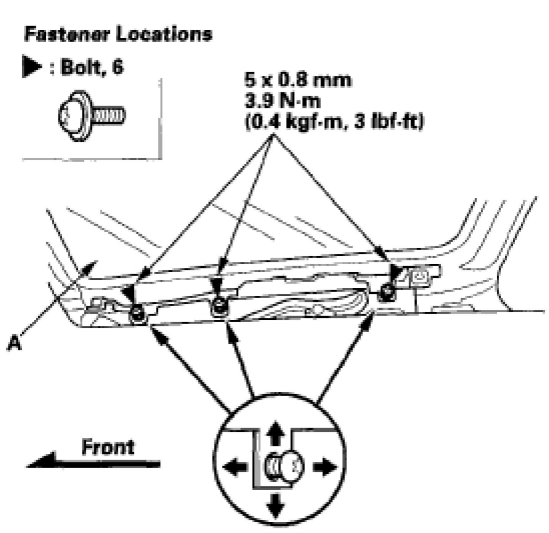

Fig. 3: Adjusting Glass (With Specifications)

3. If necessary, repeat on the opposite side.

GLASS REPLACEMENT

1. Close the glass fully.
2. Slide the sunshade all the way back.
3. Pry out the lid (A), remove the screws (B), and release the hooks (C), then remove both bracket covers (D). With a T25 TORX bit, remove the bolts (E) from both glass brackets (F).

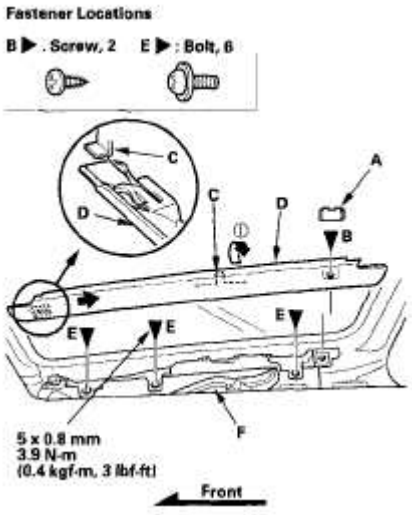

Fig. 4: Removing Both Glass Brackets (With Specifications)

4. Remove the glass (A) by lifting it up. Do not damage the roof panel.

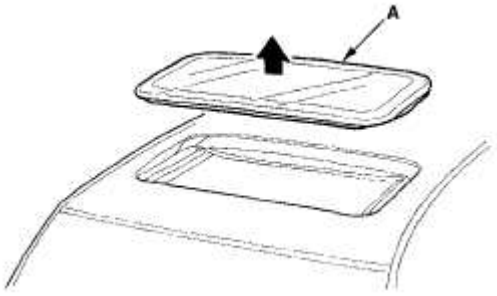

Fig. 5: Removing Glass By Lifting Up

5. Install the glass in the reverse order of the removal, and adjust the glass height alignment.
6. Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).
7. Check for water leaks. Use free-flowing water from a hose without a nozzle. Do not use high-pressure water.

NOTE: It is normal for some water to seep past the moonroof into the moonroof frame, and exit through the drains.

WIND DEFLECTOR REPLACEMENT

1. Open the glass fully.
2. Remove the links (A) from both sides.

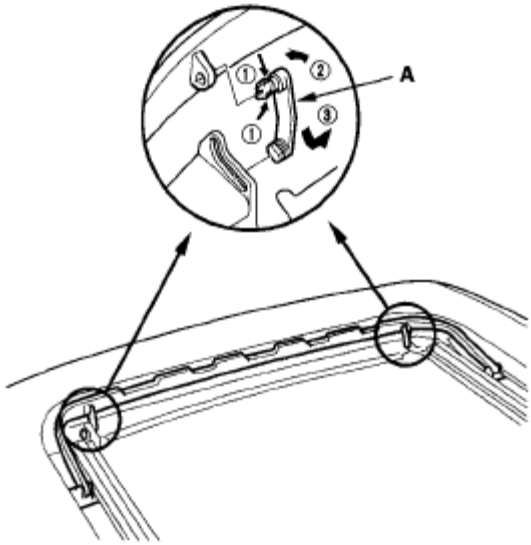

Fig. 6: Removing Links

3. Remove the wind deflector (A).

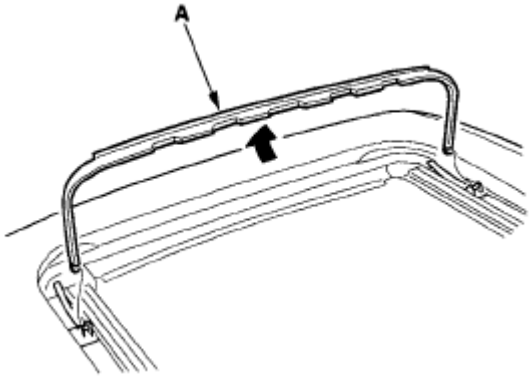

Fig. 7: Removing Wind Deflector

4. Pry up on the deflector bases (A) and release the hooks (B), then remove the bases with springs (C) from both sides.

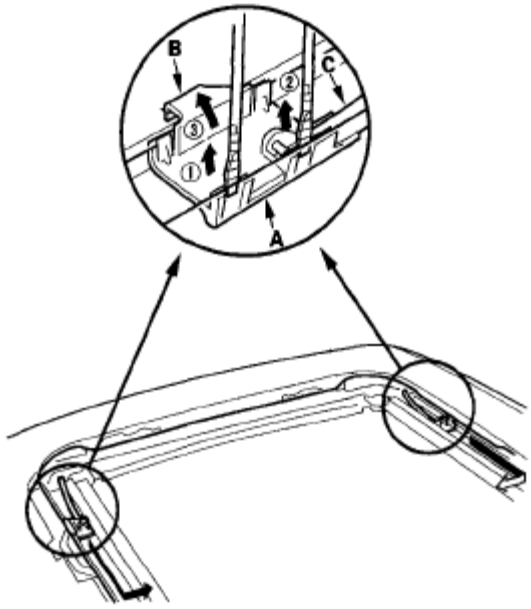

Fig. 8: Removing Deflector Bases, Hooks And Springs

5. Install the deflector in the reverse order of removal.
6. Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).

DRAIN CHANNEL REPLACEMENT

1. Remove the glass (see **GLASS REPLACEMENT**).
2. With the moonroof wrench, move both glass brackets (A) to the position where the moonroof normally tilts up and disconnect the drain channel rods (B) on both sides.

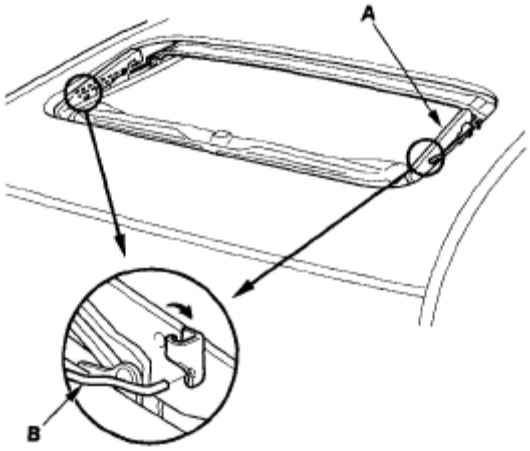

Fig. 9: Moving Both Glass Bracket To Position Tilts Up

3. Slide the drain channel (A) forward.

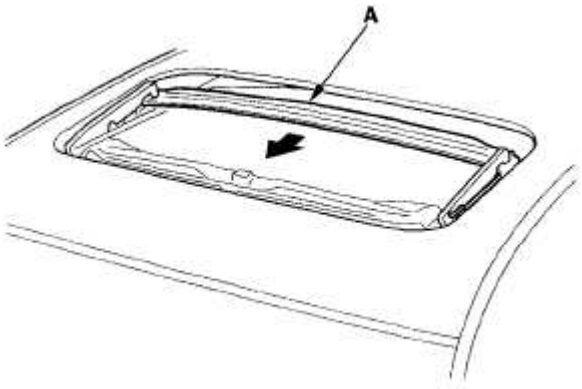

Fig. 10: Sliding Drain Channel Forward

4. Pull the rear edge of the drain channel (A) up while pushing both clips (B), and release the channel from both hooks (C) of the drain channel slider by pulling it rearward.

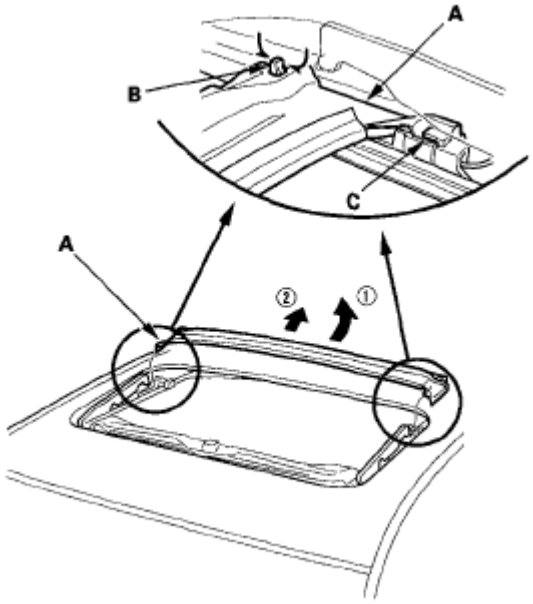

Fig. 11: Releasing Channel From Hooks Of Drain Channel Slider

5. Remove the drain channel.
6. Install the channel in the reverse order of removal, and note these items:
   - Push the clip portions into place securely.
   - Check the glass position adjustment (see **GLASS POSITION ADJUSTMENT**).
7. Check for water leaks. Let the water run freely from a hose without a nozzle. Do not use a high-pressure spray.

SUNSHADE REPLACEMENT

1. Remove the drain channel (see **DRAIN CHANNEL REPLACEMENT**).
2. Slide the sunshade (A) until you can see both sunshade slider spacers (B).

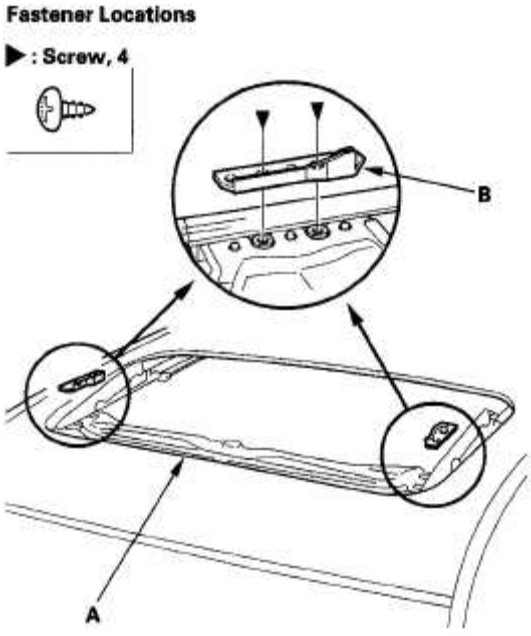

Fig. 12: Sliding Sunshade

3. Remove the screws, then remove both spacers.
4. While lifting the front portion of the sunshade (A), move the sunshade forward until you can see both sunshade rear hooks (B). Do not damage the sunshade and hooks.

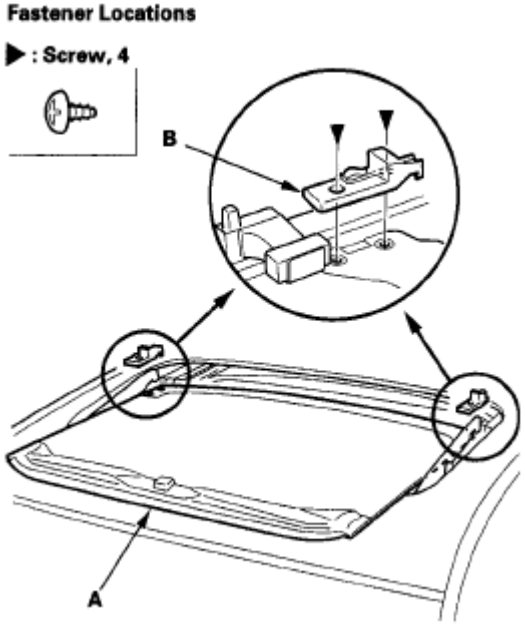

Fig. 13: Moving Sunshade Forward

5. Remove the screws, then remove both hooks.
6. Remove the sunshade (A).

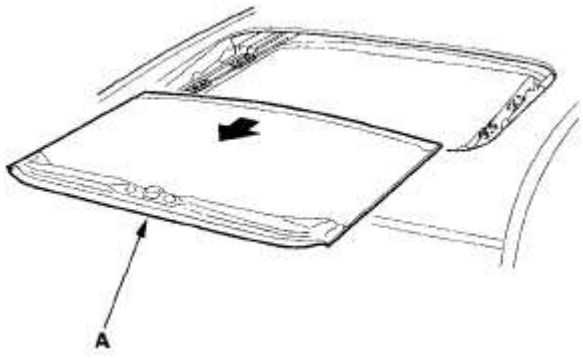

Fig. 14: Removing Sunshade

7. Remove both front sunshade base sliders (A) and both rear sunshade base sliders (B).

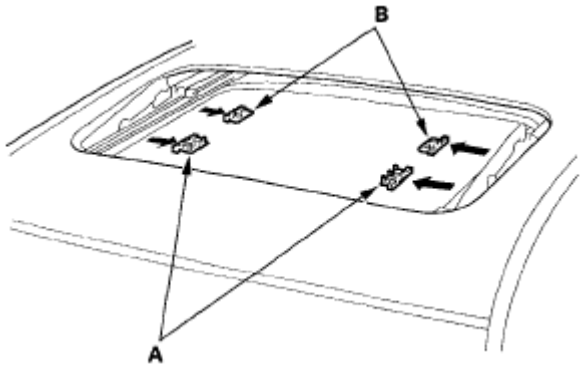

Fig. 15: Removing Front And Rear Sunshade Base Sliders

8. Install the sunshade in the reverse order of removal, and check the glass position adjustment (see **GLASS POSITION ADJUSTMENT**).
9. Check for water leaks. Let the water run freely from a hose without a nozzle. Do not use a high-pressure spray.

MOTOR REPLACEMENT

1. Remove the headliner (see **HEADLINER REMOVAL/INSTALLATION**).
2. Put on gloves to protect your hands. Disconnect the connector (A), and remove

the bolts, then remove the motor (B).

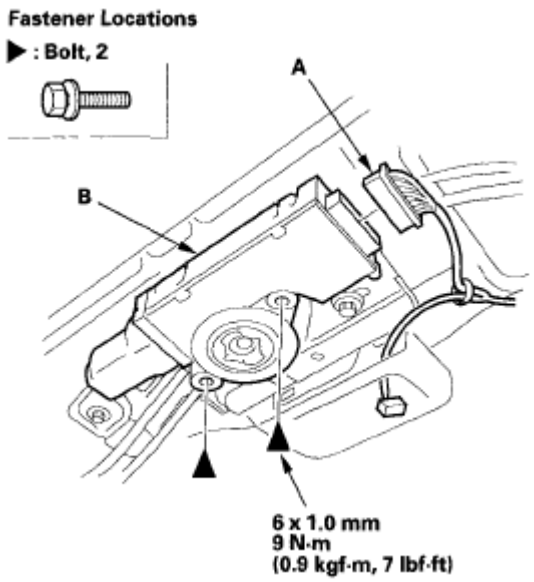

Fig. 16: Removing Motor (With Specifications)

3. Install the motor in the reverse order of removal, and note these items:
   - Make sure the connector is plugged in properly.
   - Reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).
   - Check the motor operation.

FRAME AND DRAIN TUBE REPLACEMENT

SRS components are located in this area. Review the SRS component locations (see **COMPONENT LOCATION INDEX**) and the precautions and procedures (see **PRECAUTIONS AND PROCEDURES**) in the SRS before doing repairs or service.

2-DOOR

1. Remove these items:
   - Headliner (see **HEADLINER REMOVAL/INSTALLATION**)
   - Moonroof glass (see **GLASS REPLACEMENT**)
2. Put on gloves to protect your hands. Disconnect the motor connector (A).

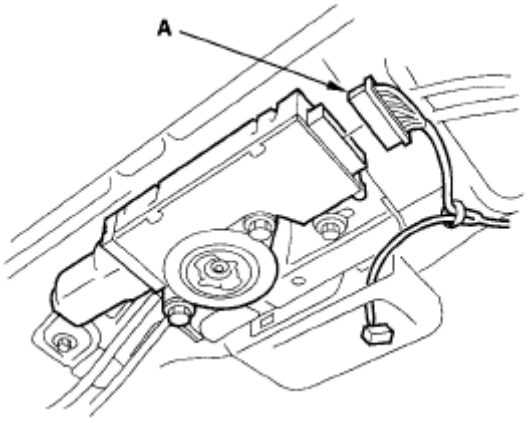

Fig. 17: Disconnecting Motor Connector

3. Disconnect the drain tubes (A).

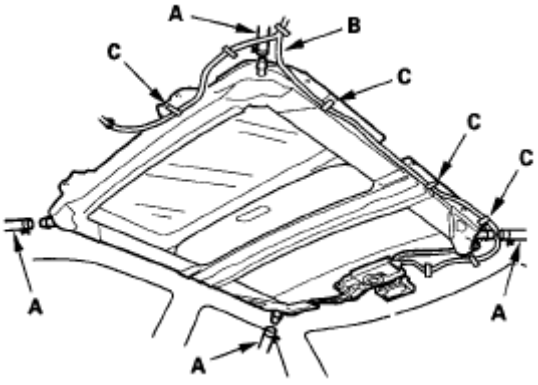

Fig. 18: Disconnecting Drain Tubes

4. Remove the roof wire harness (B) by detaching the harness clips (C).
5. With an assistant holding the frame (A), remove the bolts (B, C), starting at the rear, and release the rear hooks (D) by moving the frame forward.

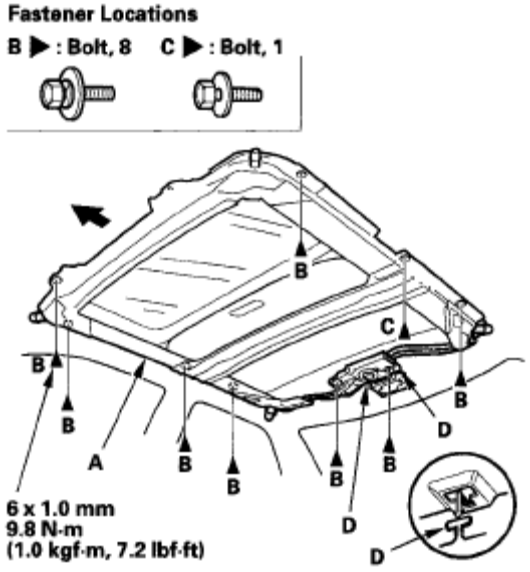

Fig. 19: Releasing Rear Hooks By Moving Frame Forward (With Specifications)

6. With the help of an assistant, carefully remove the frame through the front door opening. Take care not to scratch the interior trim and body, or tear the seat covers.
7. To remove a front drain valve (A) from the body, remove these parts:
   - Kick panel, left or right (see **TRIM REMOVAL/INSTALLATION - DOOR AREAS**)
   - Driver's dashboard undercover (see **DRIVER's DASHBOARD UNDERCOVER REMOVAL/INSTALLATION**) or passenger's dashboard undercover (see **PASSENGER's DASHBOARD UNDERCOVER REMOVAL/INSTALLATION**)

   Tie a string to the top end of the drain tube, then pull the front drain tube (B) down out of the A-pillar. Leave the string in the pillar to use when reinstalling the drain tube.

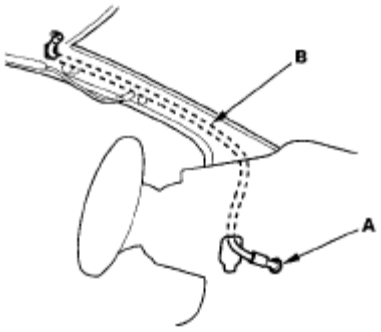

Fig. 20: Pulling Front Drain Tube Down Out Of A-Pillar

8. To remove a rear drain valve (A) from the body, remove these parts:
   - Spare tire lid (see step 3 in **TRIM REMOVAL/INSTALLATION - TRUNK AREA**)
   - Trunk rear trim panel (see step 5 in **TRIM REMOVAL/INSTALLATION - TRUNK AREA**)
   - Trunk side trim panel (see step 6 in **TRIM REMOVAL/INSTALLATION - TRUNK AREA**)

   Tie a string to the top end of the rear drain tube (B), then pull the drain tube down out of the pillar.

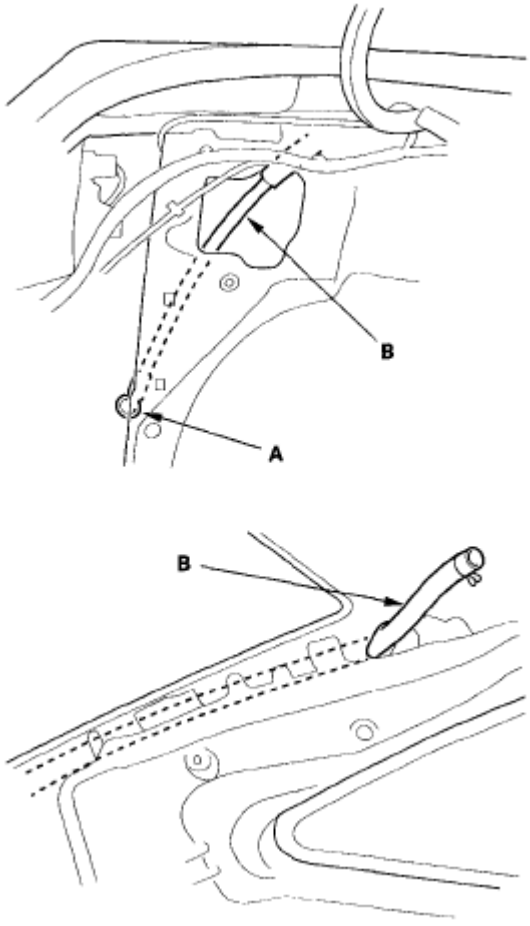

Fig. 21: Removing Rear Drain Valve From Body

9. Install the frame and drain tube in the reverse order of removal, and note these items:
   - Before installing the frame, clear the drain tubes and drain valves using compressed air.
   - When installing, tie a string to the top end of the new drain tube and pull it up into the roof.
   - Check the frame seal.
   - Clean the surface of the frame.
   - When installing the frame, first attach the rear hooks into the body holes.
   - Make sure the connectors are plugged in properly.
   - When connecting the drain tube, slide it over the frame nozzle at least 10 mm (0.39 in.).

- Install the tube clip (A) on the drain tube (B) as shown.

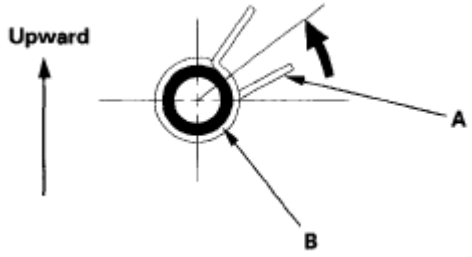

Fig. 22: Installing Frame And Drain Tube

10. Check for water leaks. Let the water run freely from a hose without a nozzle. Do not use a high-pressure spray.

SRS components are located in this area. Review the SRS component locations (see **COMPONENT LOCATION INDEX**) and the precautions and procedures (see **PRECAUTIONS AND PROCEDURES**) in the SRS before doing repairs or service.

4-DOOR

1. Remove these items:
   - Headliner (see **HEADLINER REMOVAL/INSTALLATION**)
   - Moonroof glass (see **GLASS REPLACEMENT**)
2. Put on gloves to protect your hands. Disconnect the motor connector (A).

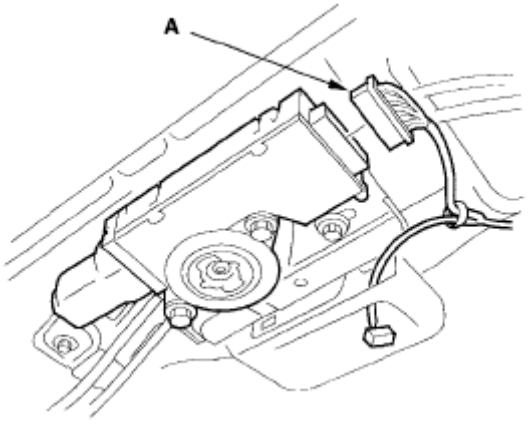

Fig. 23: Disconnecting Motor Connector

3. Disconnect the drain tubes (A).

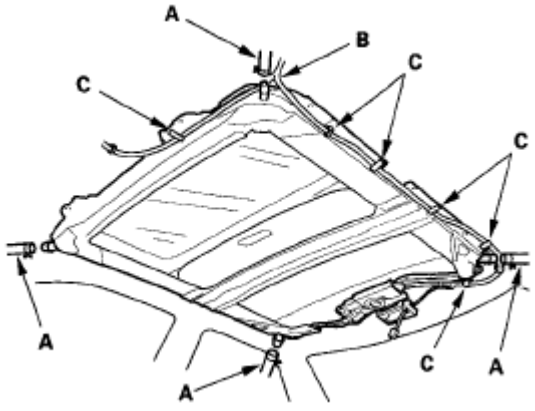

Fig. 24: Disconnecting Drain Tubes

4. Remove the roof wire harness (B) by detaching the harness clips (C).
5. With an assistant holding the frame (A), remove the bolts, starting at the rear, and release the rear hooks (B) by moving the frame forward.

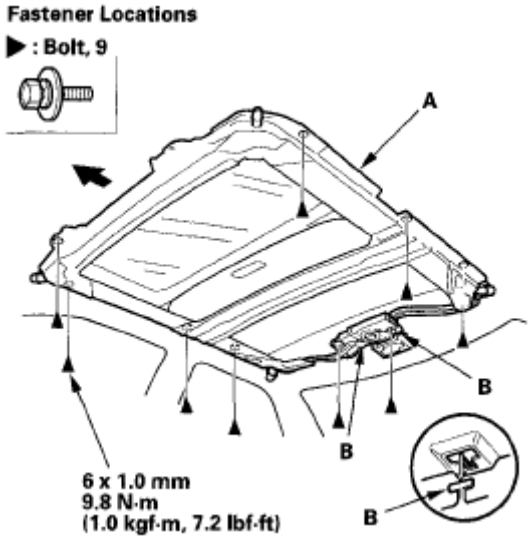

Fig. 25: Releasing Rear Hooks Moving Frame Forward (With Specifications)

6. With the help of an assistant, carefully remove the frame through the front door opening. Take care not to scratch the interior trim and body, or tear the seat covers.

7. To remove a front drain valve (A) from the body, remove the kick panel, left or right (see **FRONT DOOR SILL AREA - 4-DOOR**), and the driver's dashboard undercover (see **DRIVER'S DASHBOARD UNDERCOVER REMOVAL/INSTALLATION**) or passenger's dashboard undercover (see **PASSENGER'S DASHBOARD UNDERCOVER REMOVAL/INSTALLATION**).

   Detach the clips (B), then remove the front drain tube (C).

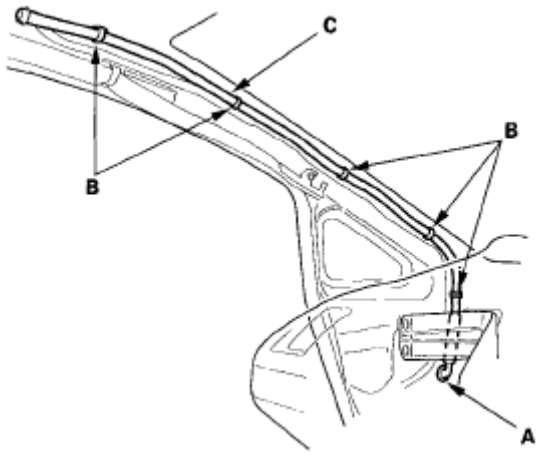

Fig. 26: Removing Front Drain Valve From Body

8. To remove a rear drain valve (A) from the body, remove these parts:
   - Spare tire lid (see step 2 in **TRIM REMOVAL/INSTALLATION - TRUNK AREA**)
   - Trunk rear trim panel (see step 5 in **TRIM REMOVAL/INSTALLATION - TRUNK AREA**)
   - Trunk side trim panel (see step 6 in **TRIM REMOVAL/INSTALLATION - TRUNK AREA**)

   Tie a string to the top end of the rear drain tube (B), then pull the drain tube down out of the pillar.

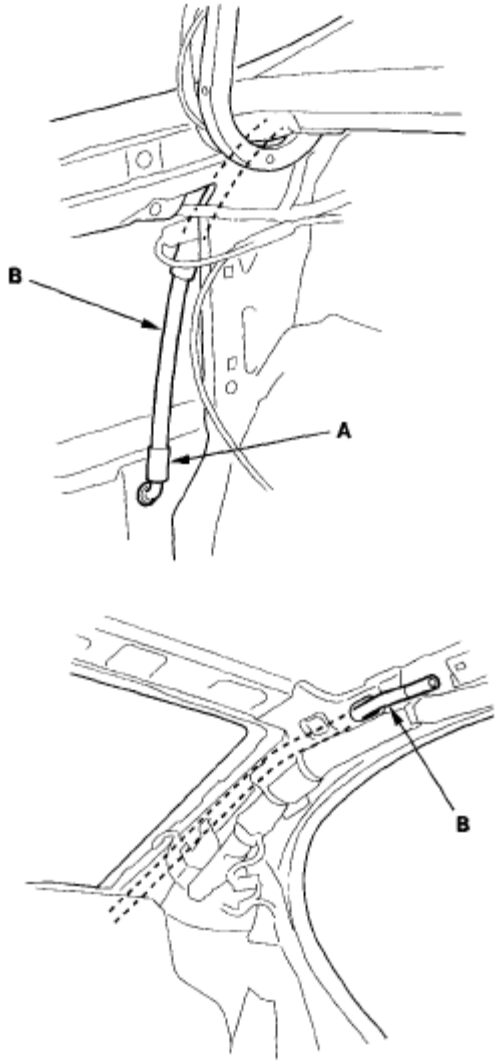

Fig. 27: Removing Rear Drain Valve From Body

9. Install the frame and drain tube in the reverse order of removal, and note these items:
   - Before installing the frame, clear the drain tubes and drain valves using compressed air.
   - When installing, tie a string to the top end of the new drain tube and pull it up into the roof.
   - Check the frame seal.
   - Clean the surface of the frame.
   - When installing the frame, first attach the rear hooks into the body holes.

- Make sure the connectors are plugged in properly.
- When connecting the drain tube, slide it over the frame nozzle at least 10 mm (0.39 in.).
- Install the tube clip (A) on the drain tube (B) as shown.

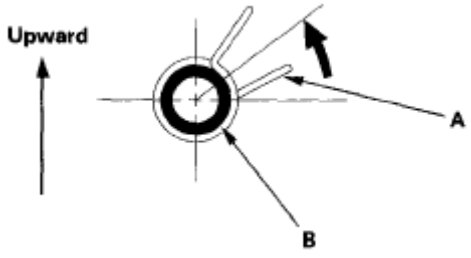

Fig. 28: Installing Frame And Drain Tube

10. Check for water leaks. Let the water run freely from a hose without a nozzle. Do not use a high-pressure spray.

DRAIN CHANNEL SLIDER AND CABLE ASSEMBLY REPLACEMENT

1. Remove the frame:
   - 2-door (see **2-DOOR**)
   - 4-door (see **4-DOOR**)
2. Remove these parts from the frame:
   - Sunshade (see **SUNSHADE REPLACEMENT**)
   - Moonroof motor (see **MOTOR REPLACEMENT**)
3. Put on gloves to protect your hands. Remove the screws (A, B) securing the slide stops (C), and cable tube rear brackets (D), cable tube side bracket mounting bolts (E) and the cable tube mounting screws (F) from both sides of the frame (G).

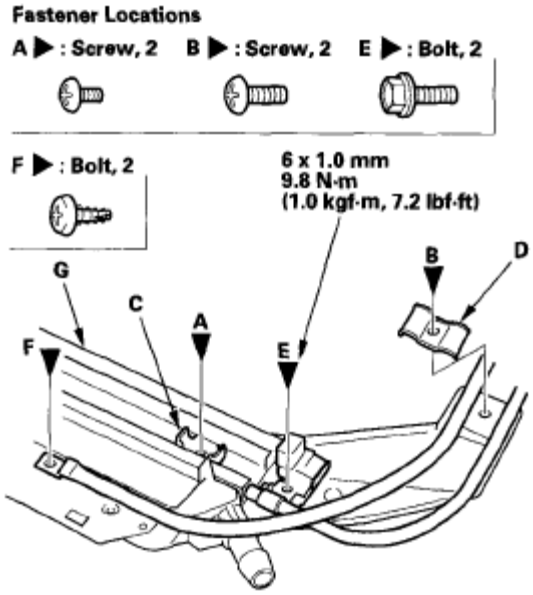

Fig. 29: Removing Screws Securing Slide Stops (With Specifications)

4. Turn both cable tube side brackets (A) up to release the hooks (B) from the holes in both sides of the frame.

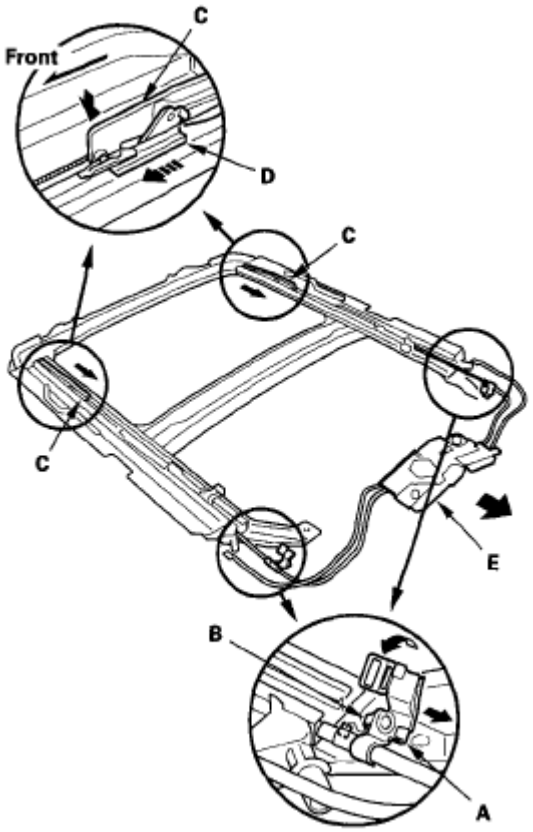

Fig. 30: Turning Cable Tube Side Brackets Up To Release Hooks

5. Pivot the glass brackets (C) down by sliding the link lifters (D) back, then slide both glass brackets back with the link lifters.
6. Slide the cable assembly (E) half-way.
7. Remove the slide stops (A) and the drain channel sliders (B) from both sides.

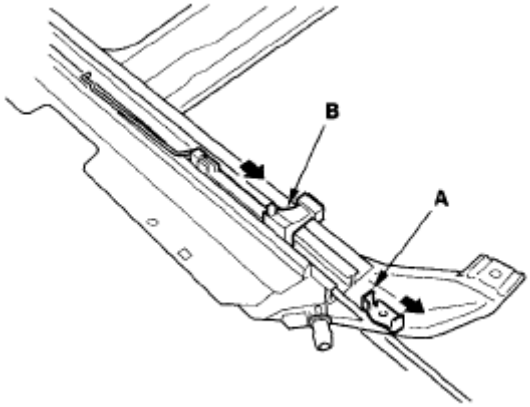

Fig. 31: Removing Slide Stops Drain Channel Sliders

8. Slide the cable assembly (A) and both glass brackets (B) back, remove the deflector sliders (C) from both glass brackets, then remove them from the frame (D).

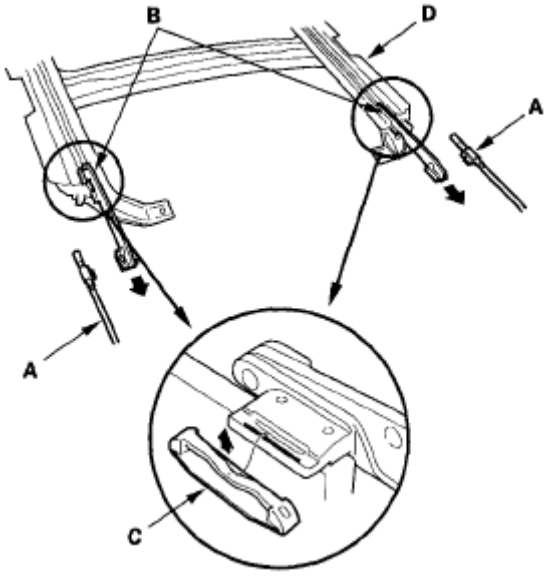

Fig. 32: Sliding Cable Assembly And Both Glass Brackets Back

9. Install the slider and cable assembly in the reverse order of removal, and note these items:
   - Damaged parts should be replaced.
   - Apply multipurpose grease to the glass bracket (A) and guide rail portion of the frame (B) indicated by the arrows.
   - Before reinstalling the motor, make sure both link lifters are parallel, and in the fully closed position.
   - Before reinstalling the motor, install the frame and glass, then check the opening drag (see **CLOSING FORCE AND OPENING DRAG CHECK**).
   - After reinstalling the motor, reset the moonroof control unit (see **RESETTING THE MOONROOF CONTROL UNIT**).

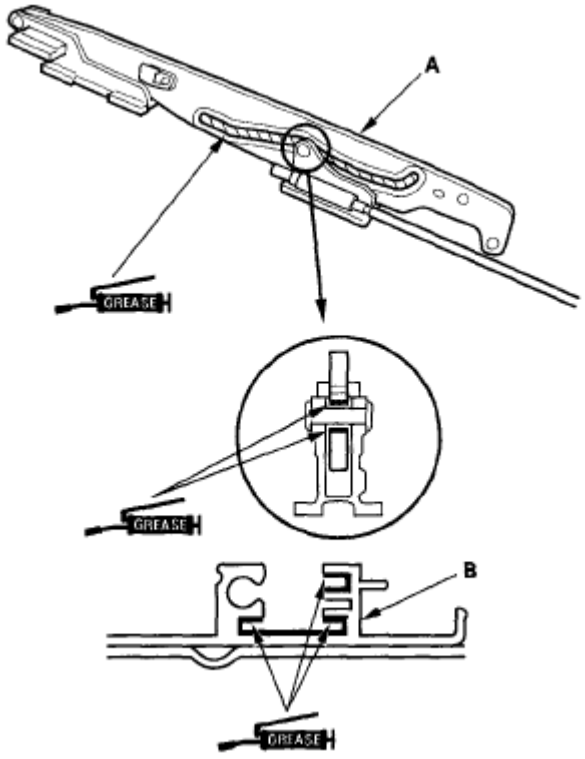

Fig. 33: Installing Slider And Cable Assembly

CLOSING FORCE AND OPENING DRAG CHECK

1. Remove the headliner (see **HEADLINER REMOVAL/INSTALLATION**).

2. Closing force check:
   - With a shop towel (A) on the leading edge of the glass (B), attach a spring scale (C) as shown in **Fig. 34**.
   - Have an assistant hold the switch to close the glass while you measure the force required to stop it.
   - Read the force as soon as the glass stops moving, then immediately release the switch and spring scale.

   Closing force: 200-290 N (20-30 kgf, 44-66 lbf)

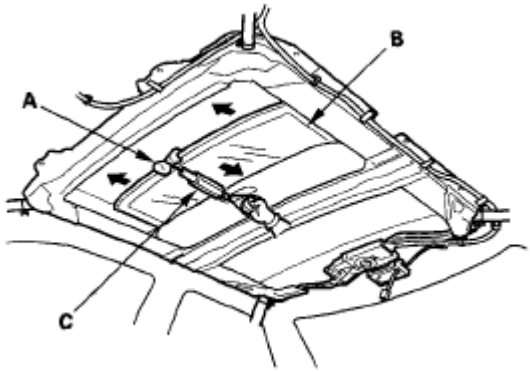

Fig. 34: Checking Closing Force

3. If the force in not within specification, remove the moonroof motor (see **MOTOR REPLACEMENT**), then check:
   - The gear portion and the inner cable for breakage and damage. If the gear portion is broken, replace the motor. If the inner cable is damaged, remove the frame, 2-door (see **2-door**), 4-door (see **4-door**), and replace the cable (see **DRAIN CHANNEL SLIDER AND CABLE ASSEMBLY REPLACEMENT**).
   - The moonroof motor (see **MOONROOF CONTROL UNIT INPUT TEST**). If the motor fails to run or doesn't turn smoothly, replace it.
   - The opening drag. Go to step 4.
4. Opening drag check: Protect the leading edge of the glass with a shop towel (A). Measure the effort required to open the glass using a spring scale (B) as shown.

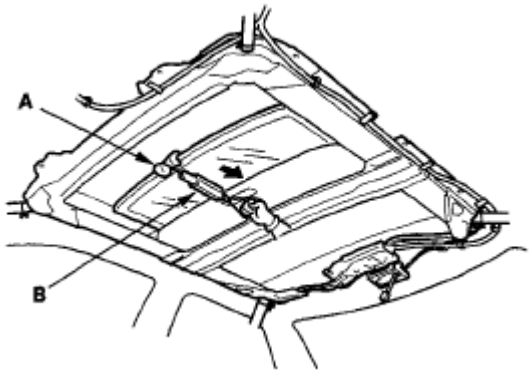

Fig. 35: Checking Opening Drag

5. If the load is over 40 N (4 kgf, 9 lbf), check:
   - The side clearance and glass position adjustment (see **GLASS POSITION ADJUSTMENT**).
   - For broken or damaged sliding parts. If any sliding parts are damaged, replace them.